Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: **J16040377**

Project Name: Edwardsport - Greywater: RO TDS

Customer Name(s): Derek Henderson, Mark Peacock, Nathan Cheney

Customer Address: 1097 N 950 W

Owensville,IN 47665

Lab Contact: Peggy Kendall Phone:

Report Authorized By: (Signature) Peggy J Kendall **Date:** 4/18/2016

Peggy Kendall

Program Comments:

Please contact the Program Manager (Peggy Kendall) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2016010620	EDWARDSPORT	14-Apr-16 9:30 AM	JRM	LP Greywater Feed
2016010621	EDWARDSPORT	14-Apr-16 9:32 AM	JRM	Grey Water Feed Tank
2016010622	EDWARDSPORT	14-Apr-16 9:37 AM	JRM	Condensate Trim Cooler Discharge
2016010623	EDWARDSPORT	14-Apr-16 9:45 AM	JRM	RO Feed Pumps
2016010624	EDWARDSPORT	14-Apr-16 9:42 AM	JRM	First Pass RO Booster Pump 154
2016010625	EDWARDSPORT	14-Apr-16 9:40 AM	JRM	Second Pass RO Booster Pump 255
2016010626	EDWARDSPORT	14-Apr-16 9:42 AM	JRM	RO Permeate Pumps

7 Total Samples

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	☑ Yes	☐ No
All Results are less than the laboratory reporting limits.	☐ Yes	☑ No
All laboratory QA/QC requirements are acceptable.	☑ Yes	☐ No

Report Sections Included:

- ☑ Job Summary Report
- ☑ Sample Identification
- ☑ Technical Validation of Data Package
- ☑ Analytical Laboratory Certificate of Analysis
- ☐ Analytical Laboratory QC Report
- ☑ Sub-contracted Laboratory Results
- ☐ Customer Specific Data Sheets, Reports, & Documentation
- ☐ Customer Database Entries
- ☑ Chain of Custody
- ☑ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Peggy Kendall Date: 4/18/2016

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: LP Greywater Feed

Collection Date: 14-Apr-16 9:30 AM

Sample #: **2016010620**

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

Order # J16040377

Site: Grey Water Feed Tank **Sample #: 2016010621**

Collection Date: 14-Apr-16 9:32 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

Order # J16040377

Site: Condensate Trim Cooler Discharge **Sample #: 2016010622**

Collection Date: 14-Apr-16 9:37 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

Order # J16040377

Site: RO Feed Pumps

Sample #: 2016010623

Collection Date: 14-Apr-16 9:45 AM

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: First Pass RO Booster Pump 154 **Sample #: 2016010624**

Collection Date: 14-Apr-16 9:42 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16040377

Site: Second Pass RO Booster Pump 255 **Sample #: 2016010625**

Collection Date: 14-Apr-16 9:40 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

Order # J16040377

Site: RO Permeate Pumps

Sample #: 2016010626

Collection Date: 14-Apr-16 9:42 AM

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

April 18, 2016

Mr. Mark Peacock
Duke Energy Edwardsport IGCC
15424 E. STATE ROAD 358
Edwardsport, IN 47528

RE: Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Dear Mr. Peacock:
Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures

cc: Mr. Derek Henderson, Duke Energy
Ms. Peggy Kendall, Duke Energy Central Laboratory
Program Manager, Duke Energy
Mr. Rhett Moody, Duke Energy (Edwardsport Generating Station)

CERTIFICATIONS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

SAMPLE SUMMARY

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50142895001	**LP Greywater Feed**	Water	04/14/16 09:30	04/14/16 15:04
50142895002	**Grey Water Feed Tank**	Water	04/14/16 09:32	04/14/16 15:04
50142895003	**Condensate Trim Cooler Disch**	Water	04/14/16 09:37	04/14/16 15:04
50142895004	**RO Feed Pumps**	Water	04/14/16 09:45	04/14/16 15:04
50142895005	**First Pass RO Booster Pump 154**	Water	04/14/16 09:42	04/14/16 15:04
50142895006	**2nd Pass RO Booster Pump 255**	Water	04/14/16 09:40	04/14/16 15:04
50142895007	**RO Permeate Pumps**	Water	04/14/16 09:42	04/14/16 15:04

SAMPLE ANALYTE COUNT

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50142895001	**LP Greywater Feed**	SM 2540C	MDG	1
50142895002	**Grey Water Feed Tank**	SM 2540C	MDG	1
50142895003	**Condensate Trim Cooler Disch**	SM 2540C	MDG	1
50142895004	**RO Feed Pumps**	SM 2540C	MDG	1
50142895005	**First Pass RO Booster Pump 154**	SM 2540C	MDG	1
50142895006	**2nd Pass RO Booster Pump 255**	SM 2540C	MDG	1
50142895007	**RO Permeate Pumps**	SM 2540C	MDG	1

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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Sample: LP Greywater Feed **Lab ID: 50142895001** Collected: 04/14/16 09:30 Received: 04/14/16 15:04 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**790**	mg/L	20.0	1		04/15/16 11:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Sample: Grey Water Feed Tank **Lab ID: 50142895002** Collected: 04/14/16 09:32 Received: 04/14/16 15:04 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**586**	mg/L	20.0	1		04/15/16 11:36		

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Sample: Condensate Trim Cooler Disch **Lab ID: 50142895003** Collected: 04/14/16 09:37 Received: 04/14/16 15:04 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1760**	mg/L	20.0	1		04/15/16 11:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Sample: RO Feed Pumps **Lab ID: 50142895004** Collected: 04/14/16 09:45 Received: 04/14/16 15:04 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1620**	mg/L	20.0	1		04/15/16 11:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Sample: First Pass RO Booster Pump 154 **Lab ID: 50142895005** Collected: 04/14/16 09:42 Received: 04/14/16 15:04 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1590**	mg/L	20.0	1		04/15/16 11:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Sample: 2nd Pass RO Booster Pump 255 **Lab ID: 50142895006** Collected: 04/14/16 09:40 Received: 04/14/16 15:04 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	1		04/15/16 11:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Sample: RO Permeate Pumps **Lab ID: 50142895007** Collected: 04/14/16 09:42 Received: 04/14/16 15:04 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**19**	mg/L	10.0	1		04/15/16 11:38		

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

QC Batch: WET/28480 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50142895001, 50142895002, 50142895003, 50142895004, 50142895005, 50142895006, 50142895007

METHOD BLANK: 1519173 Matrix: Water
Associated Lab Samples: 50142895001, 50142895002, 50142895003, 50142895004, 50142895005, 50142895006, 50142895007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/15/16 11:34	

LABORATORY CONTROL SAMPLE: 1519174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	269	90	80-120	

SAMPLE DUPLICATE: 1519175

Parameter	Units	50142895001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	790	770	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALIFIERS

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16040377-Greywater: RO TDS
Pace Project No.: 50142895

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50142895001	**LP Greywater Feed**	SM 2540C	WET/28480		
50142895002	**Grey Water Feed Tank**	SM 2540C	WET/28480		
50142895003	**Condensate Trim Cooler Disch**	SM 2540C	WET/28480		
50142895004	**RO Feed Pumps**	SM 2540C	WET/28480		
50142895005	**First Pass RO Booster Pump 154**	SM 2540C	WET/28480		
50142895006	**2nd Pass RO Booster Pump 255**	SM 2540C	WET/28480		
50142895007	**RO Permeate Pumps**	SM 2540C	WET/28480		

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

DUKE ENERGY®

Duke Energy Analytical Laboratory
Mail Code MGO3A2 (Building 7405)
13339 Hagers Ferry Rd
Huntersville, N. C. 28078
(704) 875-5245 Fax: (704) 875-4349

Analytical Laboratory Use Only

ORDER# | MATRIX: OTHER | Samples Originating From NC___ SC___
Logged By | Date & Time
Vendor | Cooler Temp (C)
Vendor:

SAMPLE PROGRAM: Ground Water ___ NPDES ___ Drinking Water ___ UST ___ RCRA Waste ___

[19]Page 1 of 2
DISTRIBUTION
ORIGINAL to LAB,
COPY to CLIENT

Customer must Complete

[1]Project Name	[2]Phone No:
Edwardsport - Greywater: RO TDS	
[2] Client: **Derek Henderson, Mark Peacock, & Nathan Cheney**	[4]Fax No:
[5]Business Unit:	[6]Process: / Mail Code:
[8]Oper. Unit:	[9]Res. Type: / [10]Reso. Center:

MR #

Customer to complete all appropriate non-shaded areas.

[15]Preserv.: 1=HCl, 2=H_2SO_4, 3=HNO_3, 4=Ice, 5=None

[16]Analyses Required

Sampling conducted: 2nd and 4th Wednesday

LAB USE ONLY [11]Lab ID	Se Speciation Bottle ID	[13]Sample Description or ID	Date	Time	Signature	[17]Comp.	[18]Grab	4	TDS	
-001	—	LP Greywater Feed	4-14-16	0930	Andrew		✓		1	5014285
-002		Grey Water Feed Tank		0932	Andrew		✓		1	
-003		Condensate Trim Cooler Discharge		0937	Andrew		✓		1	
-004		RO Feed Pumps		0945	Andrew		✓		1	
-005		First Pass RO Booster Pump 154		0943	Andrew		✓		1	
-006		Second Pass RO Booster Pump 255		0940	Andrew		✓		1	
-007		RO Permeate Pumps		0942	Andrew		✓		1	

Customer to complete appropriate columns to right

Return kit to Rhett Moody at Edwardsport Station by Interoffice Mail

Customer to sign & date below - fill out from left to right.

1) Relinquished By: Andrew	Date/Time: 4-14-16 @1000	2) Accepted By: JRM GAW	Date/Time
3) Relinquished By: JRM GAW	Date/Time	4) Accepted By: S. Lowrey/PACE	Date/Time: 4-14-16/1504
5) Relinquished By	Date/Time	6) Accepted By:	Date/Time
7) Relinquished By	Date/Time	8) Accepted By:	Date/Time
9) Seal/Locked By	Date/Time	10) Seal/Lock Opened By	Date/Time
11) Seal/Locked By	Date/Time	12) Seal/Lock Opened By	Date/Time

Comments: 0.1 °C

Customer, IMPORTANT! Please indicate desired turnaround.

[22]Requested Turnaround
14 Days ___X___
*7 Days ___
*48 Hr ___
*Other ___3 Day___
* Add. Cost Will Apply

Sample Condition Upon Receipt

Face Analytical Client Name: Duke Energy Project # 52142895

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Ziploc

Thermometer 1 2 3 4 5 6 A B C D E F Type of ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 0.1/0.1 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: H.S. 4-14-16

Are samples from West Virginia? Document any containers out of temp.	☐Yes	☑No	1.
Chain of Custody Present:	☑Yes	☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Containers Intact:	☑Yes	☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No ☐N/A	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes	☐No ☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)			12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	13
Headspace Wisconsin Sulfide	☐Yes	☐No	14
Trip Blank Present:	☐Yes	☑No ☐N/A	15
Trip Blank Custody Seals Present	☐Yes	☑No ☐N/A	
Project Manager Review			
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	15.
Sufficient Volume:	☑Yes	☐No ☐N/A	16.
Correct Containers Used:	☑Yes	☐No ☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt Date: 3/14/16

Sample Container Count

CLIENT: Duke Energy

COC PAGE 1 of 1

COC ID#

Project # 50142895

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1							1													
2							↓													
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag